North Dakota Middle School Survey

Trend Analysis Report

Injury	and v	iolence			Healt	th Risk	Behavi	or and	Percen	itages						Linear Change [*]	Quadratic Change*	Change fron 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN6:	Percent	tage of s	students	who ra	rely or	never w	ore a bi	cycle h	elmet (a	among s	tudents	who ha	d riddei	n a bicy	cle)			
														79.5	79.7	No linear change	Not available [§]	No change
QN8:	Percent	tage of s	students	who di	d not al	ways w	ear a se	at belt (when ri	ding in	a car dr	iven by	someoi	ne else)	<u>.</u>			
				80.6	75.4	69.9	66.9	58.7	61.2	53.4	52.9	43.4	37.4	39.9	43.8	Decreased, 1999-2021	Decreased, 1999-2017 Increased, 2017-2021	No chang
QN9:	Percent	tage of s	students	who ev	ver rode	with a	driver w	vho had	been d	rinking	alcohol	(in a ca	r)	·				
								34.9	36.4	31.7	27.5	25.6	24.8	23.2	23.0	Decreased, 2007-2021	No quadratic change	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. ^{*}Based on t-test analysis, p < 0.05. ^{*}Not enough years of data to calculate.

North Dakota Middle School Survey

Trend Analysis Report

Total Injury	and V	iolence	:															
					Heal	th Risk	Behavi	ior and	Percer	ntages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN12:	Percer	ntage of	f studen	ts who	were ev	er bullie	ed on sc	hool pro	operty	50.4	52.2	47.7	43.8	39.8	38.7	Decreased, 2011-2021	No quadratic change	No change
			f studen , or othe				onically	y bullie	d (coun	ting bei 25.8	ng bulli 27.7	27.8	igh text 24.7	ing, 25.0	29.2	No linear change	No quadratic change	Increased
QN14:	Percer	ntage of	f studen	ts who e	ever ser	iously tl	hought a	about ki	illing th	emselv	es							
								17.5	20.7	19.2	17.8	19.8	19.2	22.1	25.9	Increased, 2007-2021	No change, 2007-2017 Increased, 2017-2021	Increased
QN15:	Percer	ntage of	f studen	ts who	ever ma	de a pla	n about	how th	ey wou	ld kill t	hemselv	/es	-	-				
								10.9	12.3	11.5	12.5	13.0	13.2	15.7	19.1	Increased, 2007-2021	No change, 2007-2017 Increased, 2017-2021	Increased

 * Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. * Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Total Injury	y and V	iolence	;		Heal	th Risk	Behav	ior and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		2019-2021 [†]
QN16:	: Perce	ntage of	f studen	ts who	ever trie	ed to kil	l themse	elves 5.9	6.0	5.0	5.1	7.2	6.3	10.3	9.3	Increased, 2007-2021	No change, 2007-2011 Increased, 2011-2021	No change

North Dakota Middle School Survey

Trend Analysis Report

Total	
Tobacco	Use

					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN17:	Percer	ntage of	studen	ts who e	ever trie	ed cigar	ette smo	oking (e	ven one	or two	puffs)							
				43.6	38.0	32.9	31.6	23.4	21.1	17.7	17.0	16.2	10.9	10.9	11.6	Decreased, 1999-2021	Decreased, 1999-2017 No change, 2017-2021	No change
QN19: survey		ntage of	studen	ts who o	currentl	y smoke	ed cigar	ettes (or	n at leas	st 1 day	during	the 30 d	ays bef	ore the	:			
				13.4	10.0	9.5	8.9	5.7	7.3	5.6	4.2	3.6	2.9	3.6	3.6	Decreased, 1999-2021	No quadratic change	No change
	CIG: P efore th			udents v	who cur	rently s	moked	cigarette	es frequ	ently (c	on 20 or	more da	ays duri	ng the	30			
				4.6	3.2	2.8	1.9	2.2	1.8	1.4	1.1	0.6	0.4	0.3	0.3	Decreased, 1999-2021	No quadratic change	No change
QNDA the sur		Percer	ntage of	student	s who c	currently	y smoke	d cigare	ettes dai	ily (on ε	all 30 da	ys durir	ng the 3	0 days l	before			
				2.9	2.4	1.8	1.4	1.2	1.1	1.0	0.7	0.5	0.2	0.2	0.2	Decreased, 1999-2021	No quadratic change	No change

 * Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. * Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Trend Analysis Report

Total	
Tobacco Use	

					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN21:	Percer	ntage of	fstuden	ts who	ever use	ed an ele	ctronic	vapor p	roduct									
												15.5	13.1	20.4	17.4	Increased, 2015-2021	Not available [§]	No change
pens, e	-cigars	, e-hool		okah pe	ens, and		in electro such as J											
													4.7	10.3	8.2	Increased, 2017-2021	Not available	No change
			age of st fore the			rrently u	ised elec	etronic	vapor p	roducts	frequer	tly (on	20 or m	ore day	S	·		
													0.5	1.2	1.4	Increased, 2017-2021	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. ^{*}Based on t-test analysis, p < 0.05. ^{*}Not enough years of data to calculate.

North Dakota Middle School Survey

Total Tobac	co Use																	
					Heal	th Risk	Behavio	r and l	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	YEVP: efore th			studen	ts who o	currently	y used ele	ectronic	e vapor	produc	cts daily	(on all	30 days	s during	the 30			
													0.2	0.6	1.0	Increased, 2017-2021	Not available [§]	No change
				ents who survey		tly smo	ked ciga	ettes or	r used o	electror	nic vapo	r produ	cts (on	at least	1 day			
													6.2	11.1	9.2	Increased, 2017-2021	Not available	No change
dissolv	able to	bacco p	roducts	[such a	s Coper	hagen,	mokeless Grizzly, e the surv	Skoal,		0			. .		vapor			
													2.5	2.6	1.3	Decreased, 2017-2021	Not available	Decreased

North Dakota Middle School Survey

Trend Analysis Report

Total Tobac	co Use																	
					Heal	th Risk	Behavi	ior and	Perce	ntages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
snus, o	or dissol	vable to	obacco	product	s [such	as Cope	enhagen	, Grizzl	y, Skoa	co freque al, or Ca he surve	mel Snu				dip,			
													0.3	0.2	0.0	Decreased, 2017-2021	Not available [§]	No change
or diss	solvable	tobacc	o produ		h as Co	penhage	en, Griz	zly, Sko	oal, or (acco dail Camel S								
													0.2	0.2	0.0	Decreased, 2017-2021	Not available	No change
	: Perce days be				currentl	y smok	ed cigar	s (cigar	s, cigai	rillos, or	little ci	gars, on	at least	t 1 day o	luring			
						4.1	3.8	3.3	2.9	2.7	2.1	1.5	2.0	2.2	1.6	Decreased, 2003-2021	No quadratic change	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Trend Analysis Report

Total Tobacco Use	•																
				Healt	th Risk	Behavi	or and	Percen	ntages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 *
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNTB4: Per vapor produc									s or use	d smoke	eless to	bacco o	r electro	onic			
												7.5	11.5	9.7	Increased, 2017-2021	Not available [§]	No change
QNTB3: Per lay during th					tly smo	ked ciga	arettes	or cigar	s or use	d smoke	eless to	bacco (o	on at lea	st 1			
												4.8	5.2	4.6	No linear change	Not available	No change
QNFRCGR: or more days						smoked	cigars	frequen	tly (ciga	ars, ciga	urillos, o	or little o	cigars, c	on 20			
					0.3	0.7	0.5	0.6	0.4	0.4	0.2	0.1	0.2	0.0	Decreased, 2003-2021	No quadratic change	No change
QNTB2: Per	centage	of stude	nts who	curren	tly smo	ked ciga	arettes	or cigar	s (on at	least 1	day dur	ing the	30 days	before	-		
he survey)																	

 * Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. * Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Total Tobac	co Use	<u>.</u>			Heal	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change*	Change from
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021		(2019-2021 †
				of studer ore the su		currentl 0.3	y smoko 0.7	ed cigar 0.4	s daily	(cigars, 0.2	cigarill 0.3	os, or li 0.1	ttle ciga	urs, on a	11 30 0.0	Not available	Not available [§]	Not available

North Dakota Middle School Survey

Trend Analysis Report

					Healt	th Risk	Behavi	or and	Percer	itages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN25:	Percei	ntage o	of studer	its who e	ever dra	nk alcoł	hol (oth	er than	a few s	ips)			-					
										28.2	24.8	21.0	19.2	22.5	20.6	Decreased, 2011-2021	Decreased, 2011-2015 No change, 2015-2021	No change
												-						_
QN26:	Percei	ntage o	of studer	its who d	irank al	cohol fo	or the fi	rst time	before	age 11	years (o	other tha	n a few	sips)				
QN26:	Percei	ntage o	of studer	its who c	lrank al	cohol fo	or the fi	rst time 9.9	before 12.1	age 11 8.3	years (o 7.2	other tha 6.5	n a few 6.1	sips) 8.2	6.2	Decreased, 2007-2021	Decreased, 2007-2015 No change, 2015-2021	Decreased
				its who c				9.9	12.1	8.3	7.2			-	6.2	,		Decreased
-								9.9	12.1	8.3	7.2			-	6.2	,		Decreased No change
QN28: QN29:	Percer Percer ow a do	ntage of	of studer		ried ma	rijuana k prescr	for the f	9.9 first tim 1.9 pain me	12.1 le befor 2.3 dicine v	8.3 e age 1 2.4 vithout	7.2 1 years 2.9 a docto	6.5 1.9 r's presc	6.1 1.7	8.2 2.0 or differ	1.8	2007-2021 Decreased,	No change, 2015-2021	

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Total	
Sexual Behaviors	

					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32	: Perce	ntage of	studen	ts who e	ever had	l sexual	interco	urse		8.8	8.0	5.2	5.1	5.5	6.0	Decreased, 2011-2021	Decreased, 2011-2017 No change, 2017-2021	No change
-	: Perce l interco	0	studen	ts who u	used a c	ondom	during l	ast sexi	al inter	72.3	(among 66.1	student 75.1	s who e 61.9	over had 62.1	44.8	Decreased, 2011-2021	No change, 2011-2015 Decreased, 2015-2021	Decreased

North Dakota Middle School Survey

Trend Analysis Report

					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN36	Percei	ntage of	student	s who d	describe	d them	selves as	sslightl	y or vei	y overv	veight			-				
				33.0	32.3	31.5	29.8	27.2	26.7	27.1	26.8	27.0	28.5	27.9	32.0	Decreased, 1999-2021	Decreased, 1999-2011 Increased, 2011-2021	Increased
QN37	Percei	ntage of	student	s who	were try	ing to l	ose weig	ght										
				43.9	46.2	47.6	46.2	44.1	45.7	45.2	45.9	41.7	41.1	43.1	43.5	Decreased, 1999-2021	No quadratic change	No change
QN38	Percei	ntage of	student	s who a	did not	eat brea	kfast (di	uring the	e 7 days	s before	the sur	vey)						_
									7.3	8.2	8.2	9.2	9.2	9.3	13.8	Increased, 2009-2021	Increased, 2009-2017 Increased, 2017-2021	Increased
QNBF	TTDAY	Percei	ntage of	studen	ts who	ate brea	kfast on	all 7 da	ys (dur	ing the	7 days l	before tl	he surve	ey)				
									48.2	48.3	46.4	45.8	45.1	42.6	34.7	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	Decreased

 * Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. * Based on t-test analysis, p < 0.05.

North Dakota Middle School Survey

Total Physic	al Acti	vity																
					Healt	th Risk F	Behavior	and	Percer	ntages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005 2	2007	2009	2011	2013	2015	2017	2019	2021			
of phy		tivity th					active at 1 made the											
		•					e	53.1	62.0	60.0	63.7	63.3	62.8	60.4	62.7	No linear change	No quadratic change	No change
day (ir during	n any ki the 7 d	nd of pl ays befo	nysical a pre the s	activity survey)	that inc	reased th		rate a	and mad	de them 4.3	breathe 4.9	4.1	ome of t 5.8	he time 7.0	6.3	Increased, 2007-2021	No change, 2007-2015 Increased, 2015-2021	No change
kind o		al activ					sically ac e and ma											
							3	35.7	34.6	31.7	33.4	34.6	36.7	33.1	34.5	No linear change	No quadratic change	No change

North Dakota Middle School Survey

Trend Analysis Report

Total Physic	al Acti	vity																
					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
				ts who ł efore th		oncussio y)	n from j	playing	a sport	or bein	g physic	cally act	tive (one	e or moi 17.0	re 14.6	Decreased, 2019-2021	Not available [§]	Decreased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. ^{*}Based on t-test analysis, p < 0.05. ^{*}Not enough years of data to calculate.

North Dakota Middle School Survey

Total Other					Heal	lth Risk	Behavi	ior and	Percen	tages						Linear Change [*]	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	Perce the sur		f studen	ts who	usually	did not	sleep in	their pa	arent's o	r guard	ian's ho	me (dur	ing the	30 days				
														1.8	1.2	No linear change	Not available [§]	No change

North Dakota Middle School Survey

Total Site-A	dded																
					Healt	th Risk	Behavio	or and Pe	rcentages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007 2	009 2011	2013	2015	2017	2019	2021	-		
pressu	ring the	m, lyin	g to thei	n, maki	ng pron	nises ab	out the f		s to them teatening to					ening			
													8.0	8.8	No linear change	Not available [§]	No change
								nost every re the surv	day for >= ey)	2 weeks	in a rov	v so tha	t they st	topped			
												23.6	26.2	35.1	Increased, 2017-2021	Not available	Increased
		ntage of e the su		s who c	currently	y drank	alcohol	(at least o	ne drink of	alcohol,	on at le	ast 1 da	ay durin	g the			

North Dakota Middle School Survey

Trend Analysis Report

Total Site-Ao	dded																	
					Heal	th Risk	Behavi	ior and	Percer	ntages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN52:	Perce	ntage of	studen	ts who e	ever had	l 5 or m	ore drin	iks of a	lcohol i	n a row	(within	a coupl	e of ho	urs)				
												6.4	8.1	10.0	6.4	No linear change	Not available [§]	Decreased
QN53:	Percei	ntage of	studen	ts who e	ever use	d mariji	uana (or	ne or m	ore time	es durin	ig their	8.3	8.2	8.5	8.1	No linear change	Not available	No change
QN55:	Percer	ntage of	studen	ts who o	did not e	eat fruit	(one or	more t	imes du	ring the	e 7 days	before	the surv	vey)				
					13.3	13.0	11.9	7.7	6.7	6.2	6.1	6.4	6.0	6.5	6.5	Decreased, 2001-2021	Decreased, 2001-2011 No change, 2011-2021	No change
					did not e before t			not cou	nting fr	ench fr	ies, fried	d potato	es, or p	otato ch	ips,			
								8.5	10.1	8.7	9.0	9.6	10.4	11.2	12.3	Increased, 2007-2021	No quadratic change	No change

 * Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. * Based on t-test analysis, p < 0.05.

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Trend Analysis Report

Total Site-A	dded																	
					Healt	th Risk	Behavi	or and	Percen	itages						Linear Change [*]	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
			student e 30 day				e or alwa	ays wer	nt hung	ry becau	use there	e was no	ot enoug	gh food	in			
									3.2	2.6	2.9	2.5	2.2	2.6	2.1	Decreased, 2009-2021	No quadratic change	No change
-		0			•		me of th physical				s provid	e short	physica	l activit	y			
													29.0	25.8	18.7	Decreased, 2017-2021	Not available [§]	Decreased
			student		saw a de	entist (fo	or a cheo	ck-up, e	exam, te	eth clea	aning, o	r other o	dental w	ork, du	ring			
								70.3	72.0	74.9	74.6	72.1	76.7	75.6	75.3	Increased, 2007-2021	No quadratic change	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. [†]Based on t-test analysis, p < 0.05. [§]Not enough years of data to calculate.

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Trend Analysis Report

Total Site-A	dded																	
					Healt	th Risk	Behavi	or and	Percer	itages						Linear Change [*]	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNNO work)	DDNT:	Percent	age of s	students	who ne	ever saw	/ a denti	ist (for a	a check	-up, exa	ım, teetl	n cleani	ng, or o	ther der	ntal			
								2.0	1.2	1.0	1.3	1.6	0.8	1.3	1.1	Decreased, 2007-2021	No quadratic change	No change
QN60	: Perce	ntage of	studen	ts who l	orushed	their te	eth on s	even da	ıys (dur	ing the	7 days ł	pefore tl	he surve	ey)				
										66.4	65.0	63.1	63.3	64.6	60.2	Decreased, 2011-2021	No quadratic change	Decreased
-		U					ely talk y , empty		-			t family	membe	er about	their			
												33.3	34.6	31.9	24.3	Decreased, 2015-2021	Not available [§]	Decreased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. [†]Based on t-test analysis, p < 0.05. [§]Not enough years of data to calculate.

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Total Site-A	dded																	
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change [*]	Quadratic Change [*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
						ate in scl e in scho		ivities (one or r	nore ho	urs (suc	h as spo	orts, bar	nd, dram	na, or			
												78.9	79.0	76.1	71.3	Decreased, 2015-2021	Not available [§]	No change
-	Percer ey have	U		s who r	reported	there is	at least	one tea	acher or	other a	dult in 1	heir sch	nool tha	t they c	an talk			
													70.9	65.2	54.8	Decreased, 2017-2021	Not available	Decreased
			student e 30 day				uiled, or	posted	electro	nically	a reveal	ing or s	exual pl	hoto of				
														4.1	2.6	Decreased, 2019-2021	Not available	Decreased